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NEWS 1	Web Page for STN Seminar Schedule - N. America
NEWS 2 APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 3 APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 4 APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 5 APR 28	IMSRESEARCH reloaded with enhancements
NEWS 6 MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 7 MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 8 JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 9 JUN 06	KOREPAT updated with 41,000 documents
NEWS 10 JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 11 JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 12 JUN 25	CA/Caplus and USPAT databases updated with IPC reclassification data
NEWS 13 JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 14 JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 15 JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 16 JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 17 JUL 28	CA/Caplus patent coverage enhanced
NEWS 18 JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 19 JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 20 JUL 28	STN Viewer performance improved
NEWS 21 AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 22 AUG 13	CA/Caplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 23 AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 24 AUG 15	Caplus currency for Korean patents enhanced
NEWS 25 AUG 25	CA/Caplus, CASREACT, and IFI and USPAT databases enhanced for more flexible patent number searching
NEWS 26 AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 27 SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 28 SEP 25	CA/Caplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances

NEWS 29 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced  
NEWS 30 SEP 29 IFICLS enhanced with new super search field  
NEWS 31 SEP 29 EMBASE and EMBAL enhanced with new search and display fields  
NEWS 32 SEP 30 CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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=> S (Kelley OR Patel) (P) (BCMA OR BR3 OR BAFF) AND PD<=20040804  
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PROCESSING COMPLETED FOR L1  
L2          1 DUP REM L1 (2 DUPLICATES REMOVED)  
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L2 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
ACCESSION NUMBER: 2004181099 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 14764606  
TITLE: Engineering an APRIL-specific B cell maturation antigen.

AUTHOR: Patel Darshana R; Wallweber Heidi J A; Yin JianPing;  
Shriver Stephanie K; Marsters Scot A; Gordon Nathaniel C;  
Starovasnik Melissa A; Kelley Robert F

CORPORATE SOURCE: Department of Protein Engineering, Genentech, Inc., South  
San Francisco, California 94080, USA.

SOURCE: The Journal of biological chemistry, (2004 Apr 16)  
Vol. 279, No. 16, pp. 16727-35. Electronic Publication:  
2004-02-04.  
Journal code: 2985121R. ISSN: 0021-9258.

PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200407  
ENTRY DATE: Entered STN: 13 Apr 2004  
Last Updated on STN: 23 Jul 2004  
Entered Medline: 22 Jul 2004

AB B cell maturation antigen (BCMA) is a tumor necrosis factor receptor family member whose physiological role remains unclear. BCMA has been implicated as a receptor for both a proliferation-inducing ligand (APRIL) and B cell-activating factor (BAFF), tumor necrosis factor ligands that bind to multiple tumor necrosis factor receptor and have been reported to play a role in autoimmune disease and cancer. The results presented herein provide a dual perspective analysis of BCMA binding to both APRIL and BAFF. First, we characterized the binding affinity of monomeric BCMA for its ligands; BAFF binding affinity ( $IC_{50} = 8 \text{ +/- 5 microm}$ ) is about 1000-fold reduced compared with the high affinity interaction of APRIL ( $IC_{50} = 1 \text{ +/- 3 nm}$ ). Second, shotgun alanine scanning of BCMA was used to map critical residues for either APRIL or BAFF binding. In addition to a previously described "DXL" motif (Gordon, N. C., Pan, B., Hymowitz, S. G., Yin, J., Kelley, R. F., Cochran, A. G., Yan, M., Dixit, V. M., Fairbrother, W. J., and Starovasnik, M. A. (2003) Biochemistry 42, 5977-5983), the alanine scanning results predicted four amino acid positions in BCMA (Tyr13, Ile22, Gln25, and Arg27) that could impart ligand specificity. Substitution of Tyr13 was tolerated for BAFF binding but not APRIL binding. Arg27 was required for high affinity binding to APRIL, whereas substitutions of this residue had minimal effect on affinity for BAFF. Further phage display experiments suggested the single mutations of I22K, Q25D, and R27Y as providing the greatest difference in APRIL versus BAFF binding affinity. Incorporation of the Q25D and R27Y substitutions into BCMA produced a dual specificity variant, since it has comparable binding affinity for both APRIL and BAFF,  $IC_{50} = 350$  and 700 nm, respectively. Binding of the I22K mutant of monomeric BCMA to BAFF was undetectable ( $IC_{50} > 100 \text{ microm}$ ), but affinity for binding to APRIL was similar to wild-type BCMA. Based on these results, a BCMA-Fc fusion with the single I22K mutation was produced that binds APRIL,  $IC_{50} = 12 \text{ nm}$ , and has no measurable affinity for BAFF. These results suggest that APRIL is the preferred ligand for BCMA and show that specificity can be further modified through amino acid substitutions.

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L3 5 IMMUNOADHESIN (S) (BCMA OR BAFF OR BR3) AND PD<=20040804

=> Dup Rem

ENTER L# LIST OR (END):L3  
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L4

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L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:14253 CAPLUS  
DOCUMENT NUMBER: 142:133064  
TITLE: Anti-CD20 antibody and BLyS antagonist for depleting B cells and for treating B cell malignancies and autoimmune diseases  
INVENTOR(S): Chan, Andrew; Gong, Qian; Martin, Flavius  
PATENT ASSIGNEE(S): Genentech, Inc., USA  
SOURCE: PCT Int. Appl., 114 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 5  
PATENT INFORMATION:

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AU 2004251679	A1	20050106	AU 2004-251679	20040604
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EP 1631313	A2	20060308	EP 2004-754321	20040604
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PRIORITY APPLN. INFO.:			US 2003-476414P	P 20030605
			US 2003-476481P	P 20030605
			US 2003-476531P	P 20030606
			US 2002-434115P	P 20021216
			WO 2003-US39686	W 20031211
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**AB** The invention provides methods of treating B cell based malignancies and B-cell regulated autoimmune disorders using a combination therapy of anti-CD20 antibody with a BlyS antagonist. The anti-CD20 antibody is Rituxan or hu2H7v.16, humanized or chimeric antibody. The BlyS antagonist is BR3 immunoadhesin, TACI immunoadhesin, BCMA immunoadhesin, BR3-Fc chimeric protein or anti-BlyS antibody. B cell malignancy is non-Hodgkin's lymphoma (NHL), small lymphocytic NHL, lymphocyte predominant Hodgkin's disease, follicular center cell lymphoma, acute lymphocytic leukemia, chronic lymphocytic leukemia and hairy cell leukemia. B cell regulated autoimmune disease is rheumatoid arthritis, juvenile rheumatoid arthritis, SLE, Wegener's disease, inflammatory bowel disease, idiopathic thrombocytopenic purpura, thrombotic thrombocytopenic purpura, autoimmune thrombocytopenia, multiple sclerosis, psoriasis, IgA nephropathy, IgM polyneuropathy, myasthenia gravis, vasculitis, diabetes mellitus, Reynaud's syndrome, Sjogren's syndrome and glomerulonephritis.

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:672601 CAPLUS  
 DOCUMENT NUMBER: 143:171325  
 TITLE: BAFF antagonists and anti-CD20 antibodies for B cell depletion and combination therapy of B cell malignancies and autoimmune disorders  
 INVENTOR(S): Chan, Andrew; Gong, Qian; Martin, Flavius  
 PATENT ASSIGNEE(S): Genentech, Inc., USA  
 SOURCE: U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U.S. Ser. No. 861,049.

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 WO 2005-US44926 W 20051212

**AB** The invention provides methods of treating B cell-based malignancies and B-cell regulated autoimmune disorders using a combination therapy of anti-CD20 antibody with a BAFF antagonist. The BAFF antagonists are immunoadhesins or antibodies; and the anti-CD20 antibodies are chimeric or humanized antibodies or their variants and derivs.

**L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN**  
**ACCESSION NUMBER:** 2003:697001 CAPLUS  
**DOCUMENT NUMBER:** 139:212907  
**TITLE:** Use of BCMA as an immunotherapeutic agent  
**INVENTOR(S):** Kalled, Susan L.; Reid, Hugh  
**PATENT ASSIGNEE(S):** Biogen, Inc., USA; Biogen Idec Ma Inc.  
**SOURCE:** PCT Int. Appl., 72 pp.  
**CODEN:** PIXXD2  
**DOCUMENT TYPE:** Patent  
**LANGUAGE:** English  
**FAMILY ACC. NUM. COUNT:** 1  
**PATENT INFORMATION:**

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003072713	A2	20030904	WO 2003-US5147	20030221 <--
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**AB** The disclosure relates to B-cell maturation antigen (BCMA), a receptor for APRIL and BAFF, and its use as an immunoregulatory agent in treatment of immunol. disorders such as multiple sclerosis. The disclosure provides methods and compns. for treating neurodegenerative immunol. disorders in mammals by administering soluble BCMA, an antibody against BCMA, or an

antibody against a BCMA ligand, e.g., APRIL or BAFF. The soluble BCMA comprises the extracellular domain of BCMA fused to an Fc region of human IgG. BCMA-Fc therapy reduces the titer of CNS-specific autoantibodies and induces an anti-inflammatory Th2 cell switch.

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2003:133412 CAPLUS  
 DOCUMENT NUMBER: 138:193232  
 TITLE: TACIs and BR3 polypeptides and uses thereof  
 INVENTOR(S): Dixit, Vishva; Grewal, Iqbal; Ridgway, John; Yan, Minhong  
 PATENT ASSIGNEE(S): Genentech, Inc., USA  
 SOURCE: PCT Int. Appl., 153 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003014294	A2	20030220	WO 2002-US23487	20020724 <--
WO 2003014294	A3	20060330		
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HU 2005000992	A3	20071128		
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PRIORITY APPLN. INFO.:			US 2001-310114P	P 20010803
			US 2002-377171P	P 20020430
			WO 2002-US23487	W 20020724

AB Novel receptors, referred to herein as "TACIs" (Transmembrane Activator and CAML-Interactor) and "BR3," agonists and antagonists thereof, and methods of using TACIs and BR3, as well as agonists or antagonists thereof, to modulate for example, activity of tumor necrosis factor (TNF) and TNFR-related mols., including members of the TNF and TNFR families referred to as TALL-1, APRIL, TACI, and BCMA, are provided. Methods for *in vitro*, *in situ*, and/or *in vivo* diagnosis and/or treatment of mammalian cells or pathol. conditions associated with such TNF and TNFR-related mols. are further provided.

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:617851 CAPLUS

DOCUMENT NUMBER: 135:190395  
 TITLE: Uses of agonists and antagonists to modulate activity  
 of TNF-related molecules  
 INVENTOR(S): Ashkenazi, Avi J.; Dodge, Kelly H.; Grewal, Iqbal;  
 Kim, Kyung Jin; Marsters, Scot A.; Pitti, Robert M.;  
 Yan, Minhong  
 PATENT ASSIGNEE(S): Genentech, Inc., USA  
 SOURCE: PCT Int. Appl., 160 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 160  
 PATENT INFORMATION:

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WO 2001060397	A9	20021205		
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WO 2002101069	A3	20030904		
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RW: GH, GM, KE, KG, KZ, MD, GR, IE, IT, GN, GQ, GW,	LS, MW, MZ, RU, TJ, TM, LU, MC, NL, ML, MR, NE,	SD, SZ, TZ, BE, CH, CY, PT, SE, TR, NL, SN, TD,	UG, ZM, ZW, DE, DK, ES, BF, BJ, CF, FI, FR, GB, CI, CM, GA,	AM, AZ, BY, GR, IT, LI, GB, FR, GB, GR, CI, CM,
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AB Methods of using one or more agonists or antagonists to modulate activity of the members of the TNF and TNFR families referred to as TALL-1, APRIL, TACI, and BCMA are provided. The methods include in vitro, in situ, and/or in vivo diagnosis and/or treatment of mammalian cells or pathol. conditions associated with TALL-1, APRIL, TACI, or BCMA, using one or more

agonist or antagonist mols. The methods of treatment disclosed by the invention include methods of treating immune related diseases and cancer.

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